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AS

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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1. The invention of the present application is a method of determining the relative positions of two or more objects in a three-dimensional space. The method comprises the steps of: (a) providing a set of three or more reference points in a three-dimensional space; (b) measuring the distances between the reference points; (c) determining the relative positions of the objects based on the measured distances; and (d) outputting the relative positions of the objects.

EXAMINER

ART UNIT	PAPER NUMBER
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1771
DATE MAILED:

07/30/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.

09/137,127

Applicant(s)

WARD ET AL.

Examiner

Christopher C. Pratt

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 June 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) 1-8, 11-25 and 62-66 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) 1-8, 11-25 and 62-66 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) ☐ Notice of References Cited (PTO-892)
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 18) ☐ Interview Summary (PTO-413) Paper No(s) _____
- 19) ☐ Notice of Informal Patent Application (PTO-152)
- 20) ☐ Other: _____

DETAILED ACTION

Response to Amendment

1. Applicant's amendments and accompanying remarks filed 5/14/01 have been entered and carefully considered. Applicant's amendment is found to overcome the 112 indefinite rejection of claim 1 as well as the 103 rejections set forth in the last action. Despite this advance, the amendments are not found to patently distinguish the claims over the prior art and Applicant's arguments are not found persuasive of patentability for reasons set forth herein below.

Claim Objections

2. Claims 1 is objected to because of the following informalities: Claim 1 contains the phrase "such as to." Please replace the word "such" with "so." Appropriate correction is required.

Double Patenting

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

4. Claims 1-8, 11-25, and 62-66 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-8 of U.S. Patent No. 6017834 in view of Bonfield et al (5017627) and Turner (4662887). Applicant argues that Ward does not teach a fiber length of under 1mm. Ward however teaches the use of "chopped fibers." Chopped fibers imply short fibers and may

inherently refer to fibers having a length under 1mm. Turner teaches the use of a polymeric device comprising fibers used in prosthetic devices. Turner teaches said fibers to be composed of multiple materials including organic polymers (col. 3, lines 50-54). Turner further teaches that the selection of fiber size is well known in the art (col. 3, lines 40-45). Turner specifically teaches the use of fibers having a length under 1mm (example 2).

Claim Rejections - 35 USC § 103

5. Claims 1-8, 11-25, and 62-66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ward et al (6017834) in view of Bonfield et al (5017627) and Turner et al (4662887).

Applicant argues that the combination of Ward and Bonfield does not teach fibers having a length under 1mm. Turner teaches the use of fibers under 1mm (example 2). It would have been obvious to a person having ordinary skill in the art to utilize the fibers of Ward having a length under 1mm, such as .5mm. Such a modification would have been motivated by the desire to increase the density and stiffness of Wards composite material.

Conclusion


6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Pratt whose telephone number is 703-305-6559. The examiner can normally be reached on Monday - Friday from 7 am to 4 pm.

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If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on 703-308-2414. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-2351.

Christopher C. Pratt
July 25, 2001



TERREL MORRIS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700